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PATENT ABSTRACTS OF JAPAN

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(54) CARRIER FOR IMMOBILIZED ENZYME

(57) Abstract:

PURPOSE: A chemically stable carrier for immobilized enzyme capable of being linked to enzyme, having low toxicity, comprising poly-glutamyl-aminoalkyl silica gel.

CONSTITUTION: Polyglutamic acid is linked to aminoalkyl silica gel containing 1W18C alkyl group (e.g., aminopropyl silica gel) in the presence of a condensation agent (e.g., dicyclohexylcarbodiimide), to give poly-glutamyl-aminoalkyl silica gel, which is used as the desired carrier for immobilized enzyme. In immobilizing enzyme using the carrier, the carrier is suspended in a solvent such as water, dimethylformamide, etc., the enzyme and the condensation agent (e.g., dicyclohexylcarbodiimide) are added to the suspension, and the carrier is linked to the enzyme. Trypsin, papain, aminoacylase, lipase, etc. may be cited as the enzyme to be linked to the carrier.

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